COVID Data Tracker

Maps, charts, and data provided by CDC, updates daily by 8 pm ET

CDC recommends use of COVID-19 Community Levels to determine the impact of COVID-19 on communities and take action. Community Transmission levels are provided for healthcare facility use only.

United States At a Glance

Cases Total **86,512,787**

Case Trends

Deaths Total **1,010,089**

Death Trends

Current **Hosp.** **25,212**

Admission Trends

33.6% of People 5+ with First Booster

Wastewater Surveillance

COVID-19: Wastewater Surveillance

Communities can track the presence of SARS-CoV-2, the virus that causes COVID-19, in wastewater samples. These data can provide an early warning of COVID-19's spread in communities. For more information, visit the Wastewater Surveillance System page.

Monitoring Wastewater Surveillance Data

Wastewater surveillance for COVID-19 is a rapidly developing field. State, tribal, local, and territorial health departments participating in the National Wastewater Surveillance System (NWSS) submit testing data to CDC. CDC then standardizes and interprets these data and presents them in the COVID Data Tracker. How often sites collect wastewater samples and how frequently data are reported to CDC varies by health department.

Wastewater data are meant to be used with other COVID-19 surveillance data to better understand COVID-19's spread in a community. Learn more about wastewater data by exploring each of the charts and maps.

View information about the data and download the data.

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About the Data

Maps, charts, and data provided by CDC, updated daily by 8pm ET[†]. This represents all wastewater data submitted directly to CDC's NWSS DCIPHER platform, with the exceptions described in the About the Data section below. Each dot on the map represents a site. A site can represent all or part of a "sewershed," which is the area contributing wastewater to a sampling location. Not all communities report wastewater data to CDC. Participation is voluntary, and wastewater samples are collected from sewer systems so communities that rely primarily on septic systems are not represented. In addition, some sites that submit data to NWSS are not represented on the map due to various factors, such as small population size or having facility-specific sampling.

View Footnotes and Download Data

Wastewater Metric Chart

This chart shows how much virus levels have changed (increased and decreased) over time at wastewater sites across the United States. It shows the percent of sites in each category of the percent change metric for each date among all sites with available data.

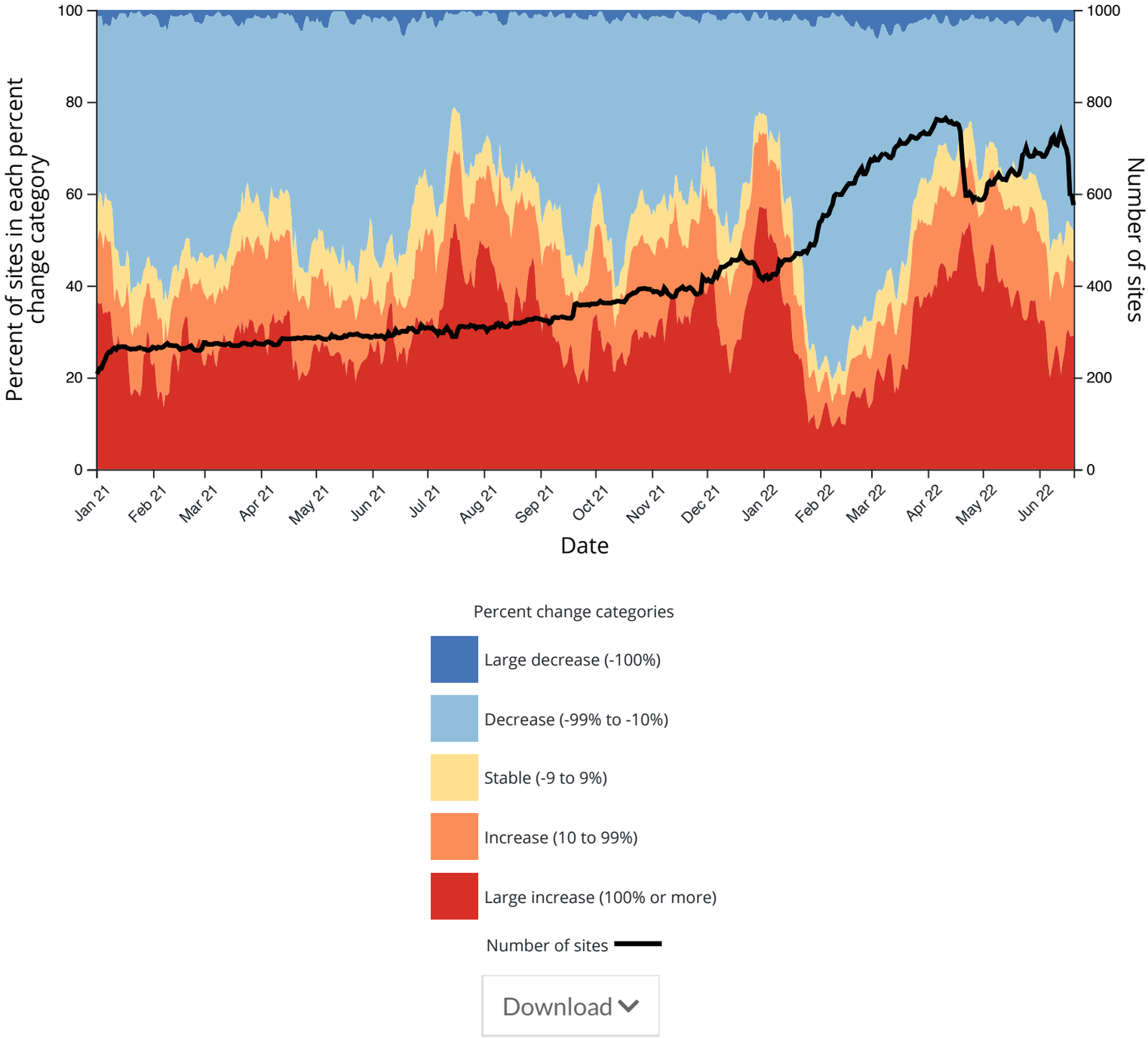
The percent change metric shows whether virus levels have increased or decreased at sites over the last 15 days.

- Blue categories (Large decrease (-100%); Decrease (-99% to -10%)): Virus levels decreased at these sites in the last 15 days.
- Yellow category (Stable (-9% to 9%)): Virus levels stayed about the same at these sites in the last 15 days.
- Orange and red categories (Increase (10% to 99%); Large increase (100% or more)): Virus levels increased at these sites in the last 15 days.

The chart shows the overall percent of sites that were in each category over time since January 1, 2021. If more area on the chart is shaded light or dark blue, it means virus levels were decreasing at more sites at that point in time. If more area on the chart is shaded red or orange, it means virus levels were increasing at more sites at that point in time. Since the percent change in the last 15 days metric may be affected by how many wastewater plants were collecting wastewater samples, the black line shows the number of sampling sites with available data for each date.

Note: This chart **does not** show overall levels of SARS-CoV-2 in wastewater.

Percent of sites in each percent change category over time, United States



Wastewater Metric Map

State or territory:

Select State or Territory

County:

Select a state in order to enable county select

Reset Selections

Time Period: Jun 06, 2022 – Jun 20, 2022

Major Cities On | Major Cities Off

Metric:

- (●) Current virus levels in wastewater by site
- ( ) Percent change in the last 15 days
- ( ) Percent of wastewater samples with detectable virus

Show:

- [x] Sites with no recent data
- [x] Sites that started sampling after 12/1/21

Current virus levels in wastewater by site

This metric shows whether SARS-CoV-2 levels at a site are currently higher or lower than past historical levels at the same site. 0% means levels are the lowest they have been at the site; 100% means levels are the highest they have been at the site. Public health officials watch for increasing levels of the virus in wastewater over time and use these data to help make public health decisions.

⚠ **Note:** Sites began collecting data at different times. Sites that began reporting wastewater data after December 1, 2021 are not comparable to sites that started reporting data on or before December 1, 2021. The data history for these new sites is not long enough to reflect the same surges as the other sites.

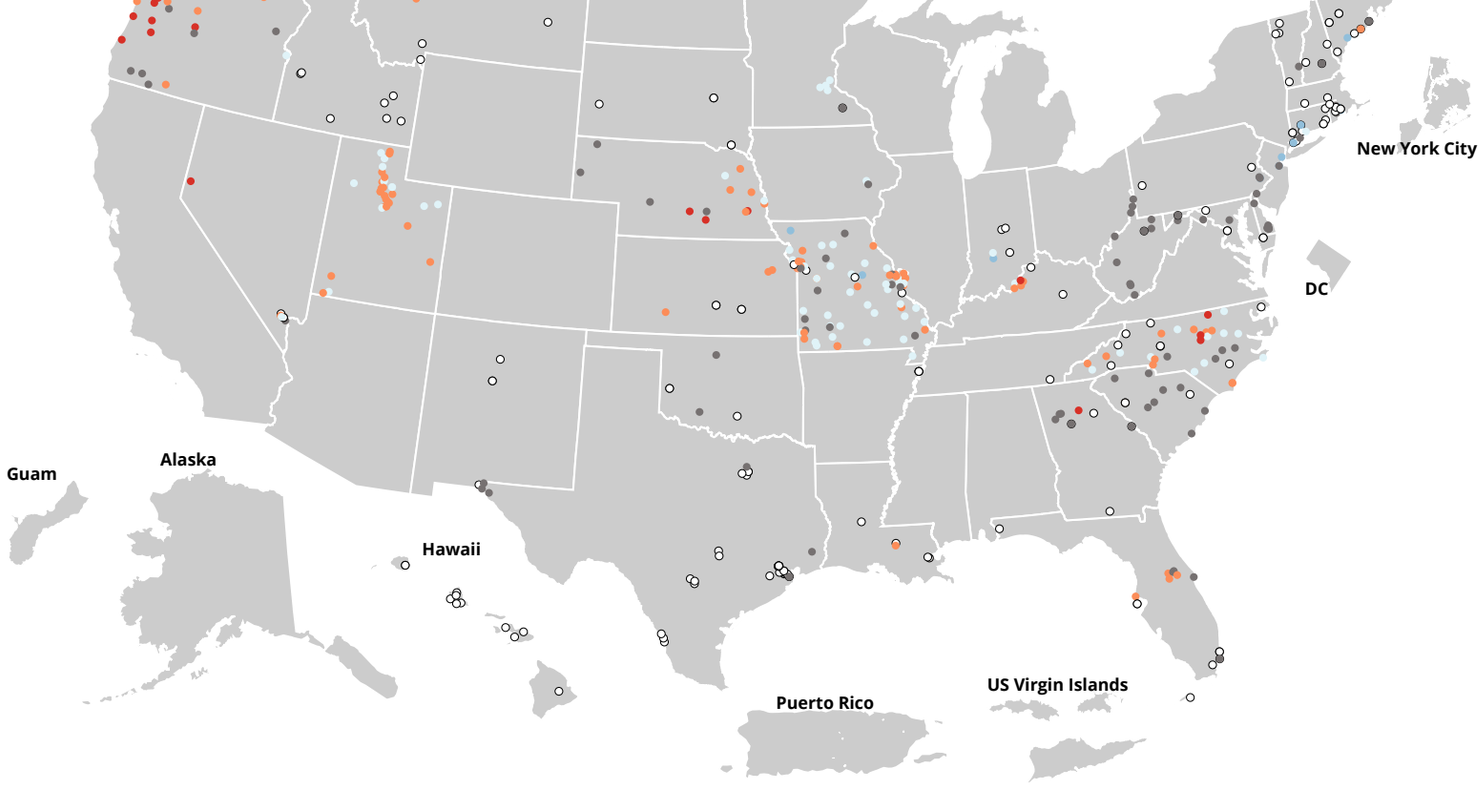
Current SARS-CoV-2 virus levels by site, United States

Current virus levels category	Num. sites	% sites	Category change in last 7 days
New Site	275	33	1%
0% to 19%	15	2	– 6%
20% to 39%	71	9	18%
40% to 59%	174	21	– 14%
60% to 79%	232	28	1%
80% to 100%	63	8	– 30%

Total sites with current data: 830

Total number of wastewater sampling sites: 1033

How is the current SARS-CoV-2 level compared to past levels calculated?



Select legend categories to filter points on the map.

New site · 0% to 19% · 20% to 39% · 40% to 59% · 60% to 79% · 80% to 100% · No recent data

Data Downloads and Footnotes

Expand each accordion to view data table and download data

View Historic Wastewater Data

Data Table for Wastewater Surveillance Current Virus Levels (in %)

CDC | Data as of: Thursday, June 23, 2022 5:37 PM ET. Posted: Thursday, June 23, 2022 7:31 PM ET

Download Data

Jurisdiction	Sewershed ID	Reporting Jurisdiction	County	Population Served	Current Virus Levels (in %)
Arizona	1212	Arizona	Maricopa	64,521	N/A
Arizona	1059	Arizona	Yuma	18,039	N/A
Arizona	715	Arizona	Pima	418,268	N/A
Arizona	501	Arizona	La Paz	3,500	N/A
Arizona	1212	Arizona	Maricopa	17,280	N/A
Arizona	715	Arizona	Pima	397,407	38
Arizona	590	Arizona	Pima	303,176	N/A
Arizona	1055	Arizona	Yuma	4,725	N/A
Arizona	1212	Arizona	Maricopa	9,430	N/A
Arizona	1212	Arizona	Maricopa	9,848	N/A
Arizona	1212	Arizona	Maricopa	6,500	N/A
Arizona	1212	Arizona	Maricopa	12,542	N/A
Arizona	1054	Arizona	Yuma	10,873	N/A

Arizona	808	Arizona	Mohave	37,500	81.25
Arizona	808	Arizona	Mohave	22,000	new site
Arizona	590	Arizona	Pima	347,900	70
Arkansas	591	Arkansas	Mississippi	6,500	new site
Arkansas	741	Arkansas	Mississippi	5,500	new site
Arkansas	741	Arkansas	Mississippi	5,500	new site
California	834	California	Riverside	91,765	57.5
California	779	California	Los Angeles	200,000	new site
California	1026	California	Santa Cruz	160,000	N/A
California	137	California	Contra Costa, Alameda	740,000	87
California	1209	California	Marin	13,000	new site
California	126	California	Yolo	70,717	92
California	247	California	Merced	91,000	N/A
California	357	California	San Diego	2,200,000	85.86
California	362	California	San Francisco, San Mateo	210,000	88.86
California	59	California	Kern	168,750	79.67
California	393	California	San Mateo	199,000	73
California	570	California	Sonoma	220,000	51
California	1188	California	Ventura	220,000	N/A
California	352	California	Santa Clara	110,338	71.54
California	363	California	San Francisco, San Mateo	750,000	90.25
California	778	California	Lake	10,080	new site
California	299	California	Orange	1,800,000	59.3
California	353	California	Santa Clara	1,500,000	88.13
California	77	California	Imperial	40,000	73.17
California	354	California	Santa Clara	153,000	86.73
California	211	California	Los Angeles	3,500,000	47.43
California	564	California	Alameda	60,000	new site
California	830	California	San Luis Obispo	47,000	new site
California	215	California	Ventura, Los Angeles	4,000,000	75.86
California	356	California	San Bernardino	325,000	75.57
California	1230	California	San Luis Obispo	47,400	new site
California	258	California	Stanislaus	230,000	N/A
California	383	California	Sacramento	1,480,000	82
California	1173	California	Contra Costa	494,300	new site
California	1027	California	Santa Cruz	160,000	N/A
California	1028	California	Santa Cruz	160,000	N/A
California	362	California	San Francisco, San Mateo	250,000	83.93
California	461	California	Humboldt	45,000	N/A
California	1019	California	Lake	13,200	93.71
California	793	California	San Luis Obispo	39,000	67.6
California	506	California	Los Angeles, Ventura	100,000	new site
California	305	California	Santa Clara	236,000	88.69
California	158	California	Fresno	650,000	85
California	543	California	San Benito	40,000	N/A
California	88	California	Contra Costa	484,800	86.57
California	1118	California	Humboldt	43,173	new site
California	1199	California	Kings	59,000	new site
California	495	California	Santa Cruz	60,000	new site
California	724	California	Contra Costa	215,394	65.6
California	802	California	Santa Cruz	85,000	new site
California	1219	California	Lake	5,000	new site
California	803	California	Santa Cruz	150,000	new site

California	763	California	Santa Cruz	160,000	new site
Colorado	122	Colorado	Summit	7,857	N/A
Colorado	224	Colorado	Boulder, Weld	75,543	76.8
Colorado	226	Colorado	Boulder	17,600	75.6
Colorado	227	Colorado	Larimer	66,428	79.2
Colorado	58	Colorado	Larimer, Weld	7,946	64
Colorado	329	Colorado	Pueblo	96,514	60.6
Colorado	66	Colorado	Boulder	89,383	82.6
Colorado	370	Colorado	Larimer	23,193	77.2
Colorado	747	Colorado	Arapahoe	25,714	N/A
Colorado	252	Colorado	Denver	709,904	59.6
Colorado	117	Colorado	El Paso	303,855	72.4
Colorado	372	Colorado	Arapahoe, Denver	247,443	82.6
Colorado	49	Colorado	Adams, Arapahoe	268,003	79.6
Colorado	251	Colorado	Denver	345,453	75
Colorado	656	Colorado	La Plata	23,429	N/A
Colorado	437	Colorado	Larimer	9,292	67
Colorado	841	Colorado	Adams	21,429	N/A
Colorado	368	Colorado	Adams	54,560	75.2
Colorado	152	Colorado	Larimer	26,621	67.4
Colorado	161	Colorado	Garfield	16,714	N/A
Colorado	845	Colorado	Summit	14,286	N/A
Colorado	556	Colorado	Morgan	12,000	N/A
Colorado	142	Colorado	Larimer	5,818	N/A
Colorado	749	Colorado	Eagle	21,071	N/A
Colorado	657	Colorado	Summit	28,571	N/A
Colorado	737	Colorado	Alamosa	18,364	N/A
Colorado	72	Colorado	Broomfield	53,355	68.2
Colorado	116	Colorado	El Paso	102,203	79.6
Colorado	151	Colorado	Larimer	92,126	72.2
Colorado	47	Colorado	Pitkin	5,500	N/A
Colorado	578	Colorado	Las Animas	14,286	N/A
Colorado	163	Colorado	Weld	83,319	76.6
Colorado	576	Colorado	Routt	43,741	N/A
Colorado	1069	Colorado	Larimer	5,818	new site
Colorado	150	Colorado	Larimer	17,997	78
Colorado	846	Colorado	Gunnison	30,000	N/A
Colorado	751	Colorado	Mesa	89,286	N/A
Colorado	396	Colorado	San Miguel	15,000	N/A
Colorado	844	Colorado	Eagle	19,286	N/A
Colorado	408	Colorado	Summit	35,643	N/A
Colorado	748	Colorado	El Paso	34,286	N/A
Colorado	928	Colorado	Weld	20,000	N/A
Colorado	843	Colorado	Eagle	30,714	N/A
Colorado	887	Colorado	Summit	18,571	N/A
Connecticut	686	Connecticut	New Haven	112,000	new site
Connecticut	806	Connecticut	Fairfield	65,000	new site
Connecticut	1196	Connecticut	New Haven	19,500	new site
Connecticut	832	Connecticut	New London	40,000	new site
Connecticut	1079	Connecticut	New Haven	228,000	43.6
Connecticut	771	Connecticut	Fairfield	120,000	new site
Connecticut	1163	Connecticut	New London	22,000	new site
Connecticut	291	Connecticut	Fairfield	75,000	new site

Connecticut	686	Connecticut	New Haven	112,000	27
Connecticut	795	Connecticut	Windham	10,000	new site
Connecticut	806	Connecticut	Fairfield	70,000	new site
Connecticut	832	Connecticut	New London	40,000	new site
Connecticut	771	Connecticut	Fairfield	120,000	28.8
Connecticut	534	Connecticut	Fairfield	100,000	N/A
Delaware	1187	Delaware	New Castle	17,145	N/A
Delaware	1194	Delaware	New Castle	539,000	N/A
Delaware	1185	Delaware	Sussex	4,392	N/A
Delaware	1186	Delaware	Sussex	4,050	N/A
Delaware	1183	Delaware	Sussex	7,000	N/A
Delaware	1184	Delaware	Kent	130,000	N/A
Delaware	1191	Delaware	Sussex	75,000	N/A
Delaware	1192	Delaware	Sussex	7,000	N/A
District of Columbia	486	District of Columbia	District Of Columbia	1,600,000	new site
District of Columbia	486	District of Columbia	District Of Columbia	1,600,000	new site
Florida	511	Florida	Pinellas	103,000	65.4
Florida	670	Florida	Orange	59,587	68.2
Florida	711	Florida	Miami-Dade	829,725	new site
Florida	781	Florida	Miami-Dade	776,150	new site
Florida	1144	Florida	Seminole, Orange	94,726	N/A
Florida	1145	Florida	Seminole	43,010	N/A
Florida	781	Florida	Miami-Dade	776,150	new site
Florida	574	Florida	Pinellas	220,000	new site
Florida	671	Florida	Orange	463,672	73.4
Florida	490	Florida	Brevard	10,500	N/A
Florida	669	Florida	Orange	277,823	63.4
Florida	668	Florida	Miami-Dade	920,528	new site
Florida	829	Florida	Monroe	50,000	new site
Florida	711	Florida	Miami-Dade	829,725	N/A
Florida	706	Florida	Escambia	197,000	new site
Florida	574	Florida	Pinellas	220,000	new site
Georgia	684	Georgia	Dekalb	325,000	new site
Georgia	476	Georgia	Richmond	197,191	new site
Georgia	1109	Georgia	Lowndes	65,000	new site
Georgia	1072	Georgia	Gwinnett	650,000	86.4
Georgia	1074	Georgia	Paulding	8,000	N/A
Georgia	1169	Georgia	Clarke	56,500	new site
Georgia	1071	Georgia	Paulding	10,000	N/A
Georgia	684	Georgia	Dekalb	300,000	N/A
Georgia	1073	Georgia	Cobb	190,000	N/A
Georgia	476	Georgia	Richmond	200,000	N/A
Hawaii	1204	Hawaii	Honolulu	109,236	new site
Hawaii	790	Hawaii	Honolulu	700,000	new site
Hawaii	798	Hawaii	Honolulu	48,519	new site
Hawaii	1175	Hawaii	Maui	52,000	new site
Hawaii	710	Hawaii	Kauai	10,000	new site
Hawaii	1221	Hawaii	Hawaii	32,600	new site
Hawaii	1208	Hawaii	Honolulu	20,800	new site
Hawaii	1181	Hawaii	Maui	59,000	new site
Hawaii	710	Hawaii	Kauai	10,000	new site

Hawaii	1205	Hawaii	Maui	49,000	new site
Hawaii	1203	Hawaii	Honolulu	300,000	new site
Idaho	818	Idaho	Ada	120,344	N/A
Idaho	819	Idaho	Latah	24,000	83.29
Idaho	1129	Idaho	Kootenai	38,500	new site
Idaho	992	Idaho	Ada	167,500	N/A
Idaho	1067	Idaho	Twin Falls	48,951	new site
Idaho	1066	Idaho	Bonneville	60,000	N/A
Idaho	816	Idaho	Ada	167,500	new site
Idaho	813	Idaho	Ada	120,344	new site
Idaho	1227	Idaho	Bannock	75,000	new site
Idaho	1228	Idaho	Caribou	3,200	new site
Idaho	1225	Idaho	Bingham	14,045	new site
Idaho	1067	Idaho	Bonneville	60,000	new site
Illinois	635	Chicago	Cook	3,590	41.8
Illinois	638	Illinois	Cook	1,127,736	57.6
Illinois	649	Illinois	Bureau	7,555	59.8
Illinois	603	Illinois	Kane	11,290	85
Illinois	652	Illinois	Shelby	5,329	34.33
Illinois	635	Chicago	Cook	70,645	64.8
Illinois	894	Illinois	Lee	15,115	80.75
Illinois	626	Illinois	Knox	39,153	93.25
Illinois	605	Illinois	Saint Clair	52,300	87.75
Illinois	980	Illinois	Mclean	88,475	49.5
Illinois	871	Illinois	La Salle	18,307	73
Illinois	632	Illinois	Cook	270,647	83.71
Illinois	641	Illinois	Cook	217,106	64
Illinois	643	Illinois	Lake	55,735	89.6
Illinois	618	Illinois	Mchenry	40,269	51.4
Illinois	462	Illinois	Winnebago	240,000	41.8
Illinois	653	Illinois	Macoupin	4,480	68.25
Illinois	639	Illinois	Cook	1,127,736	58.4
Illinois	644	Illinois	Lake	105,208	73
Illinois	633	Illinois	Warren	10,836	N/A
Illinois	978	Illinois	Mclean	88,475	59
Illinois	642	Illinois	Du Page	128,358	77.25
Illinois	619	Illinois	Vermilion	30,479	77.8
Illinois	613	Illinois	Marion	15,738	N/A
Illinois	634	Illinois	Jefferson	21,169	63.4
Illinois	697	Illinois	Rock Island	25,202	66.5
Illinois	654	Illinois	Whiteside	18,678	62.25
Illinois	675	Chicago	Cook	215,718	55
Illinois	698	Illinois	Rock Island	43,768	70.5
Illinois	646	Illinois	Richland	8,968	N/A
Illinois	981	Illinois	De Kalb	43,862	75
Illinois	683	Illinois	Cook	161,000	16.8
Illinois	637	Illinois	Cook	13,098	61
Illinois	650	Illinois	Adams	50,695	79
Illinois	606	Illinois	Saint Clair	52,300	88.5
Illinois	1062	Illinois	Kendall	210,655	74.67
Illinois	604	Illinois	Cass	5,446	86.5
Illinois	462	Illinois	Winnebago	353,599	54.75
Illinois	647	Illinois	Peoria	157,379	63.5

Illinois	682	Illinois	Cook	265,000	29.2
Illinois	596	Illinois	Cook	160,735	new site
Illinois	616	Illinois	Christian	12,663	72.75
Illinois	622	Illinois	Effingham	12,384	75
Illinois	546	Illinois	Kankakee	65,000	64.6
Illinois	655	Illinois	Champaign	91,041	55.2
Illinois	611	Illinois	Fulton	13,506	88.5
Illinois	651	Illinois	Carroll	5,615	55.67
Illinois	674	Chicago	Cook	52,306	62.4
Illinois	627	Illinois	Morgan	23,818	69.5
Illinois	612	Illinois	Greene	3,064	76.2
Illinois	624	Illinois	Stephenson	27,218	81
Illinois	602	Illinois	Union	4,442	76.8
Illinois	675	Chicago	Cook	54,458	68.2
Illinois	857	Illinois	Lawrence	4,399	N/A
Illinois	983	Illinois	Mchenry	15,000	74.6
Illinois	984	Illinois	Du Page	18,800	55.5
Illinois	675	Chicago	Cook	203,376	46
Illinois	617	Illinois	Mchenry	40,269	73
Illinois	628	Illinois	Kankakee	56,317	57.6
Illinois	635	Illinois	Cook	1,134,897	43.2
Illinois	607	Illinois	Boone	41,500	65
Illinois	636	Illinois	Cook	110,394	64.71
Illinois	731	Illinois	Bureau	5,223	92.6
Illinois	620	Illinois	Macon	70,746	77.4
Illinois	982	Illinois	Cook	1,263,110	77.7
Illinois	615	Illinois	Randolph	6,814	N/A
Illinois	972	Illinois	Saint Clair	32,289	64.25
Illinois	631	Illinois	Mcdonough	22,004	59
Illinois	623	Illinois	Clay	5,070	63.2
Illinois	645	Illinois	Lake	126,629	69
Illinois	674	Chicago	Cook	91,964	74.8
Illinois	621	Illinois	Perry	6,448	89.25
Illinois	625	Illinois	Jo Daviess	3,460	59.4
Illinois	699	Illinois	Tazewell	30,997	75
Illinois	1100	Illinois	Du Page	40,438	24.75
Illinois	979	Illinois	Mclean	88,475	54.5
Illinois	595	Illinois	Cook	264,000	new site
Indiana	772	Indiana	Monroe	67,500	27.2
Indiana	828	Indiana	Hamilton	84,000	new site
Indiana	678	Indiana	Bartholomew	50,000	N/A
Indiana	765	Indiana	Monroe	22,500	41.8
Indiana	1162	Indiana	Hamilton	98,000	new site
Indiana	678	Indiana	Bartholomew	49,000	new site
Iowa	105	Iowa	Johnson	21,000	41.75
Iowa	544	Iowa	Johnson	75,000	N/A
Kansas	766	Kansas	Butler	13,000	new site
Kansas	833	Kansas	Shawnee	50,000	61.6
Kansas	472	Kansas	Reno	40,000	new site
Kansas	807	Kansas	Ford	27,000	63
Kansas	787	Kansas	Shawnee	90,000	61.6
Kansas	766	Kansas	Butler	13,000	new site
Kansas	472	Kansas	Reno	40,000	N/A
Kansas	703	Kansas	Reno	40,000	new site
Kentucky	1207	Kentucky	Carroll	3,000	new site
Kentucky	903	Kentucky	Jefferson	32,460	78
Kentucky	905	Kentucky	Jefferson	249,850	45

Kentucky	905	Kentucky	Jefferson	349,850	45
Kentucky	901	Kentucky	Jefferson	55,928	75.67
Kentucky	902	Kentucky	Jefferson	295,910	73.33
Kentucky	810	Kentucky	Estill	5,000	new site
Kentucky	904	Kentucky	Jefferson	31,269	83.33
Louisiana	792	Louisiana	Orleans	389,000	60
Louisiana	1229	Louisiana	Rapides	60,000	new site
Louisiana	1116	Louisiana	East Baton Rouge	99,712	new site
Louisiana	792	Louisiana	Orleans	389,000	new site
Louisiana	727	Louisiana	Orleans	998,000	new site
Louisiana	1107	Louisiana	East Baton Rouge	262,326	60
Maine	507	Maine	Oxford	1,000	new site
Maine	484	Maine	Franklin	2,750	new site
Maine	65	Maine	Lincoln	1,700	new site
Maine	475	Maine	Piscataquis	900	new site
Maine	347	Maine	Knox	7,000	new site
Maine	347	Maine	Knox	7,000	N/A
Maine	475	Maine	Piscataquis	900	46.8
Maine	475	Maine	Piscataquis	800	N/A
Maine	507	Maine	Oxford	1,000	new site
Maine	560	Maine	Sagadahoc	8,500	N/A
Maine	560	Maine	Sagadahoc	8,514	new site
Maine	716	Maine	Cumberland	8,500	23
Maine	484	Maine	Franklin	2,750	new site
Maine	1206	Maine	York	21,000	new site
Maine	65	Maine	Lincoln	1,759	61.75
Maryland	563	Maryland	Wicomico	37,000	new site
Maryland	1222	Maryland	Allegany	45,000	new site
Maryland	666	Maryland	Allegany	45,000	N/A
Maryland	547	Maryland	Howard	250,000	N/A
Maryland	561	Maryland	Washington	90,000	new site
Maryland	563	Maryland	Wicomico	37,447	new site
Massachusetts	470	Massachusetts	Hampden	55,000	N/A
Massachusetts	1180	Massachusetts	Worcester	12,000	new site
Massachusetts	470	Massachusetts	Hampden	55,000	new site
Michigan	799	Michigan	Washtenaw	150,000	57.15
Michigan	1039	Michigan	Saint Joseph	7,623	44
Michigan	1102	Michigan	Dickinson	13,500	new site
Michigan	1020	Michigan	Dickinson	3,200	71.67
Michigan	801	Michigan	Grand Traverse	45,000	65.6
Michigan	898	Michigan	Wayne, Oakland	840,600	37.2
Michigan	1036	Michigan	Allegan	5,500	49.8
Michigan	1155	Michigan	Tuscola	3,000	new site
Michigan	1168	Michigan	Kent	68,000	78
Michigan	1049	Michigan	Allegan	3,777	70.8
Michigan	888	Michigan	Calhoun	70,000	30
Michigan	800	Michigan	Genesee	95,000	38.79
Michigan	822	Michigan	Delta	12,600	64
Michigan	890	Michigan	Ottawa	36,912	49
Michigan	1050	Michigan	Saint Joseph	10,681	58
Michigan	1215	Michigan	Kent	41,000	new site
Michigan	1122	Michigan	Otsego	3,670	55.33
Michigan	756	Michigan	Kent	265,000	N/A

Michigan	860	Michigan	Gratiot	8,976	89.6
Michigan	889	Michigan	Ottawa	45,608	59.25
Michigan	895	Michigan	Bay	34,000	new site
Michigan	874	Michigan	Emmet	7,900	43
Michigan	891	Michigan	Kalamazoo	194,170	44.6
Michigan	1105	Michigan	Menominee	3,842	new site
Michigan	1090	Michigan	Manistee	8,154	56.8
Michigan	896	Michigan	Macomb, Wayne	492,000	56.6
Michigan	1091	Michigan	Schoolcraft	3,412	61.67
Michigan	1121	Michigan	Saginaw	6,300	new site
Michigan	762	Michigan	Washtenaw	330,000	32.79
Michigan	1092	Michigan	Chippewa	15,000	N/A
Michigan	1167	Michigan	Kent	15,000	82.67
Michigan	1089	Michigan	Chippewa	6,546	69.33
Michigan	861	Michigan	Saginaw	40,000	61.5
Michigan	1088	Michigan	Ottawa	25,000	36.4
Michigan	1093	Michigan	Mackinac	3,460	74
Michigan	533	Michigan	Alpena	12,000	N/A
Michigan	1018	Michigan	Bay	20,000	36.5
Michigan	1104	Michigan	Mackinac	14,000	new site
Michigan	1166	Michigan	Huron	4,000	new site
Michigan	1239	Michigan	Isabella	7,615	new site
Michigan	1106	Michigan	Iosco	5,000	new site
Michigan	1086	Michigan	Ottawa	20,000	21.6
Michigan	1087	Michigan	Genesee	72,240	new site
Michigan	1136	Michigan	Clare	3,042	new site
Michigan	757	Michigan	Jackson	90,000	48.58
Michigan	897	Michigan	Macomb, Oakland	1,482,000	31.8
Michigan	1040	Michigan	Ottawa	11,200	53.4
Michigan	1096	Michigan	Muskegon	125,000	N/A
Michigan	1119	Michigan	Roscommon	5,398	new site
Michigan	1217	Michigan	Kent	145,000	new site
Michigan	1048	Michigan	Calhoun	6,964	66.6
Michigan	761	Michigan	Lenawee	8,680	47.36
Michigan	823	Michigan	Houghton	14,000	47.2
Michigan	1051	Michigan	Allegan	4,225	N/A
Michigan	1125	Michigan	Marquette	25,000	new site
Michigan	1216	Michigan	Midland	40,000	50
Michigan	1138	Michigan	Isabella	25,629	new site
Michigan	1214	Michigan	Kent	40,000	new site
Minnesota	494	Minnesota	Olmsted	115,000	new site
Minnesota	993	Minnesota	Scott, Dakota	150,000	54
Minnesota	494	Minnesota	Olmsted	115,000	N/A
Minnesota	849	Minnesota	Scott, Carver, Hennepin	300,000	44
Minnesota	783	Minnesota	Hennepin, Washington, Dakota, Anoka, Ramsey	1,950,000	42
Minnesota	1108	Minnesota	Scott, Dakota	250,000	42
Missouri	242	Missouri	Nodaway	12,000	35.5
Missouri	293	Missouri	Saint Louis, Jefferson	27,391	66.67
Missouri	82	Missouri	Carroll	3,784	N/A
Missouri	385	Missouri	Buchanan	27,000	45.67
Missouri	69	Missouri	Taney	6,155	64
Missouri	380	Missouri	Greene	22,818	56

Missouri	143	Missouri	Saint Francois	10,114	60
Missouri	218	Missouri	Clay	35,300	61.33
Missouri	200	Missouri	Wyandotte, Johnson, Jackson	61,250	62
Missouri	159	Missouri	Callaway	12,790	38.67
Missouri	190	Missouri	Cole, Callaway	41,153	61.67
Missouri	267	Missouri	Saint Louis	115,895	41
Missouri	139	Missouri	Miller	4,895	57.33
Missouri	195	Missouri	Johnson, Jackson, Cass	490,000	47
Missouri	827	Missouri	Dent	4,512	57
Missouri	199	Missouri	Clay, Platte	12,855	23.33
Missouri	381	Missouri	Christian, Greene	151,966	N/A
Missouri	386	Missouri	Saint Charles	60,000	65.33
Missouri	83	Missouri	Jasper	12,000	N/A
Missouri	270	Missouri	Saint Charles, Saint Louis	174,537	59.33
Missouri	156	Missouri	Madison	4,000	53
Missouri	423	Missouri	Johnson	11,883	60.67
Missouri	266	Missouri	Saint Louis, Jefferson	24,174	50.33
Missouri	295	Missouri	Jackson	7,985	new site
Missouri	365	Missouri	Scott, New Madrid	17,000	60
Missouri	264	Missouri	Saint Louis City, Saint Louis	306,647	61.67
Missouri	196	Missouri	Jackson	25,000	69
Missouri	130	Missouri	Stoddard	6,000	N/A
Missouri	78	Missouri	Caldwell, Clinton, Dekalb	9,700	60.67
Missouri	269	Missouri	Jefferson, Saint Louis	66,738	66.67
Missouri	404	Missouri	Lincoln	3,282	58.67
Missouri	259	Missouri	Lawrence, Barry	9,100	50.67
Missouri	198	Missouri	Clay	12,000	69
Missouri	132	Missouri	Saint Charles	58,776	66.67
Missouri	280	Missouri	Vernon	8,082	40.67
Missouri	317	Missouri	Platte	8,000	51.67
Missouri	114	Missouri	Henry	9,118	N/A
Missouri	348	Missouri	Phelps	15,000	57
Missouri	858	Missouri	Jackson, Cass	367,300	58
Missouri	63	Missouri	Polk	10,500	54.33
Missouri	81	Missouri	Cape Girardeau, Scott	33,540	55
Missouri	192	Missouri	Jasper	34,403	56.67
Missouri	284	Missouri	Christian	20,000	58
Missouri	424	Missouri	Johnson	14,477	45.33
Missouri	268	Missouri	Saint Louis	451,367	54.33
Missouri	194	Missouri	Platte, Clay	76,759	62
Missouri	312	Missouri	Perry	9,000	52.67
Missouri	145	Missouri	Jefferson	16,722	new site
Missouri	68	Missouri	Taney	10,559	65.33
Missouri	213	Missouri	Barton	4,532	N/A
Missouri	253	Missouri	Audrain	11,500	54
Missouri	407	Missouri	Franklin	7,936	45.67
Missouri	119	Missouri	Boone	123,180	59.33
Missouri	306	Missouri	Saint Louis, Franklin	7,001	N/A
Missouri	87	Missouri	Barry	3,300	52
Missouri	294	Missouri	Saint Charles	16,000	N/A
Missouri	171	Missouri	Ralls, Marion	16,000	64.33
Missouri	441	Missouri	Howell	12,000	52
Missouri	191	Missouri	Newton	15,906	61

Missouri	71	Missouri	Linn	3,979	43.33
Missouri	265	Missouri	Saint Louis	149,112	62
Missouri	238	Missouri	Saline	10,113	44.67
Missouri	202	Missouri	Dunklin	11,300	43.33
Missouri	45	Missouri	Boone	3,000	new site
Missouri	732	Missouri	Platte	7,000	new site
Missouri	429	Missouri	Franklin	15,000	50
Missouri	64	Missouri	Saint Francois	7,165	43.33
Missouri	95	Missouri	Livingston	9,000	40
Missouri	184	Missouri	Jackson, Clay	43,200	N/A
Missouri	321	Missouri	Butler	17,000	50
Missouri	197	Missouri	Platte, Clay	13,940	63
Missouri	279	Missouri	Newton	12,000	66.67
Missouri	438	Missouri	Saint Charles	44,852	68
Missouri	240	Missouri	Webster	8,000	54.33
Missouri	133	Missouri	Saint Charles	47,757	68
Missouri	336	Missouri	Jefferson	12,293	N/A
Missouri	824	Missouri	Adair	17,496	N/A
Montana	977	Montana	Lewis And Clark	37,125	65.33
Montana	976	Montana	Lewis And Clark	2,273	70.67
Montana	1176	Montana	Custer	8,800	new site
Montana	562	Montana	Missoula	68,015	new site
Montana	1032	Montana	Gallatin	3,000	new site
Montana	1035	Montana	Gallatin	1,272	new site
Nebraska	922	Nebraska	Lancaster	100,000	82.8
Nebraska	917	Nebraska	Dodge	28,000	76.6
Nebraska	923	Nebraska	Washington, Sarpy, Douglas	600,000	72
Nebraska	988	Nebraska	Lincoln	24,000	N/A
Nebraska	919	Nebraska	Adams	24,692	84
Nebraska	915	Nebraska	Dawes	5,561	N/A
Nebraska	921	Nebraska	Douglas	200,000	54.8
Nebraska	926	Nebraska	Wayne	5,560	72
Nebraska	925	Nebraska	Lancaster	200,000	74.6
Nebraska	916	Nebraska	Platte	23,000	70
Nebraska	987	Nebraska	Madison, Stanton	27,000	56.5
Nebraska	924	Nebraska	Scotts Bluff	15,932	N/A
Nebraska	920	Nebraska	Buffalo	33,790	92.6
Nebraska	918	Nebraska	Hall	52,000	N/A
Nevada	700	Nevada	Clark	15,500	N/A
Nevada	148	Nevada	Clark	1,001,800	N/A
Nevada	554	Nevada	Washoe	200,000	84.6
Nevada	777	Nevada	Clark	246,258	new site
Nevada	663	Nevada	Clark	265,000	new site
Nevada	777	Nevada	Clark	246,258	new site
Nevada	703	Nevada	Clark	650,000	79.75
Nevada	1082	Nevada	Clark	984,000	55.4
New Hampshire	497	New Hampshire	Merrimack	43,000	new site
New Hampshire	285	New Hampshire	Carroll	25,000	new site
New Hampshire	497	New Hampshire	Merrimack	40,000	N/A

New Hampshire	402	New Hampshire	Sullivan	6,500	new site
New Jersey	788	New Jersey	Bergen, Hudson, Essex, Passaic	1,500,000	38
New Jersey	784	New Jersey	Union, Middlesex, Somerset	880,000	29
New Jersey	784	New Jersey	Union, Middlesex, Somerset	880,000	N/A
New Mexico	764	New Mexico	Sandoval, Bernalillo	650,000	new site
New Mexico	853	New Mexico	Los Alamos	13,179	new site
New Mexico	764	New Mexico	Bernalillo, Sandoval	650,000	new site
New York	514	New York	Onondaga	16,168	43.5
New York	530	New York	Madison	3,317	N/A
New York	1150	New York	Suffolk	7,741	new site
New York	524	New York	Orange	36,227	70.8
New York	483	New York	Delaware	3,581	36.67
New York	695	New York	Oswego	14,199	12.33
New York	52	New York	Steuben	5,941	41.4
New York	1112	New York	Albany	109,426	new site
New York	123	New York	Steuben	10,605	36.75
New York	430	New York	Jefferson	15,294	N/A
New York	516	New York	Madison	4,908	N/A
New York	528	New York	Otsego	19,383	33.67
New York	498	New York	Bronx	684,569	new site
New York	430	New York	Jefferson	26,013	N/A
New York	837	New York	Rockland	53,437	42
New York	1021	New York	Nassau	32,000	N/A
New York	525	New York	Onondaga	50,727	36.5
New York	1041	New York	Suffolk	346,000	N/A
New York	1022	New York	Schenectady	78,444	44
New York	515	New York	Madison	4,843	N/A
New York	1045	New York	Essex, Franklin	5,000	N/A
New York	522	New York	Orange	27,434	43.2
New York	526	New York	Orange	41,135	N/A
New York	1097	New York	Dutchess	35,000	N/A
New York	1012	New York	Erie	83,961	88
New York	1010	New York	Monroe	103,000	N/A
New York	986	New York	Washington	12,260	50
New York	1003	New York	Monroe	550,000	N/A
New York	1013	New York	Erie	71,131	90
New York	721	New York	Rensselaer	79,699	35.67
New York	836	New York	Nassau	611,349	76.33
New York	720	New York	Lewis	3,953	0
New York	723	New York	Seneca	6,961	24
New York	740	New York	Oneida	55,215	new site
New York	690	New York	Cortland	26,950	22.67
New York	580	New York	Monroe	43,074	35
New York	1000	New York	Erie	17,983	28.67
New York	509	New York	New York	588,772	new site
New York	1078	New York	Wayne	8,931	new site
New York	550	New York	Richmond	244,918	new site
New York	529	New York	Orange	8,568	35.4
New York	1097	New York	Dutchess	38,207	27.25
New York	520	New York	Onondaga	39,352	40
New York	998	New York	Erie	431,141	87
New York	1021	New York	Nassau	20,616	61.4

New York	739	New York	Orange	42,921	75.2
New York	521	New York	Onondaga	242,377	33
New York	740	New York	Oneida	33,358	new site
New York	477	New York	Essex	3,076	82.5
New York	503	New York	Queens	90,474	new site
New York	1002	New York	Erie	24,461	91.33
New York	1170	New York	Greene	4,896	new site
New York	1022	New York	Schenectady	65,000	N/A
New York	551	New York	Kings	758,007	new site
New York	527	New York	Madison	9,207	27
New York	1242	New York	Schoharie	5,326	new site
New York	718	New York	Putnam	3,656	31.33
New York	776	New York	Ulster	24,000	N/A
New York	1044	New York	Suffolk	24,147	60
New York	426	New York	Orange	6,729	52.8
New York	1149	New York	Tioga	3,750	new site
New York	691	New York	Herkimer	13,924	18.33
New York	1045	New York	Essex	6,264	50.8
New York	519	New York	Orange	6,369	45.6
New York	512	New York	Cayuga	31,814	30.67
New York	693	New York	Ulster	10,577	30.5
New York	738	New York	Putnam	4,480	23
New York	532	New York	Onondaga	25,965	43.5
New York	487	New York	Queens	848,328	new site
New York	694	New York	Franklin	7,175	26.5
New York	512	New York	Cayuga	33,000	N/A
New York	479	New York	Chenango	6,734	71
New York	521	New York	Onondaga	55,167	new site
New York	1213	New York	Ontario	17,936	new site
New York	549	New York	Kings	1,068,012	new site
New York	692	New York	Saint Lawrence	10,794	49
New York	1041	New York	Suffolk	278,775	50.86
New York	485	New York	Kings	283,428	new site
New York	722	New York	Saratoga	152,482	57
New York	1098	New York	Sullivan	4,925	new site
New York	999	New York	Chautauqua	12,616	87
New York	1030	New York	Broome	38,726	new site
New York	567	New York	Fulton	23,379	38.67
New York	1068	New York	Tompkins	56,967	new site
New York	1006	New York	Chautauqua	32,501	77
New York	1009	New York	Niagara	45,000	N/A
New York	513	New York	Onondaga	30,613	43.5
New York	500	New York	New York	588,772	new site
New York	717	New York	Montgomery	19,679	20
New York	1013	New York	Erie	14,742	89
New York	1043	New York	Suffolk	3,349	24.6
New York	719	New York	Nassau	24,041	39
New York	505	New York	Queens	410,812	new site
New York	974	New York	Yates	5,339	36.67
New York	518	New York	Steuben	5,162	41.8
New York	689	New York	Tompkins	9,770	58
New York	1010	New York	Monroe	155,096	30.2
New York	1153	New York	Livingston	15,688	new site

New York	742	New York	Albany	80,922	54.33
New York	545	New York	Queens	728,123	new site
New York	553	New York	Kings	192,050	new site
New York	531	New York	Jefferson	4,077	26.33
New York	776	New York	Ulster	26,599	new site
New York	1011	New York	Cattaraugus	17,760	61.67
New York	1151	New York	Oneida	27,849	new site
New York	1009	New York	Niagara	48,196	0
New York	1099	New York	Wyoming	3,448	new site
New York	541	New York	Kings	596,326	new site
New York	838	New York	Rockland	207,430	53.5
New York	869	New York	Warren	23,462	28.33
New York	517	New York	Livingston	4,730	18
New York	552	New York	Richmond	198,128	new site
New York	1003	New York	Monroe	487,322	35.2
New York	1042	New York	Columbia	6,374	new site
North Carolina	334	North Carolina	Wake	30,655	77.2
North Carolina	237	North Carolina	Mcdowell	8,459	46
North Carolina	85	North Carolina	Wake	74,331	74.2
North Carolina	345	North Carolina	Halifax, Northampton	14,320	47
North Carolina	575	North Carolina	Mitchell	3,500	new site
North Carolina	53	North Carolina	Carteret	3,500	53.8
North Carolina	332	North Carolina	Wake	550,000	54.4
North Carolina	568	North Carolina	Watauga	38,000	N/A
North Carolina	271	North Carolina	Henderson, Buncombe	173,000	67.6
North Carolina	539	North Carolina	Vance	15,000	81.67
North Carolina	536	North Carolina	Jackson, Swain	12,000	61.6
North Carolina	303	North Carolina	Orange, Durham	78,141	71
North Carolina	450	North Carolina	New Hanover	58,361	72.2
North Carolina	452	North Carolina	Forsyth	178,000	60.4
North Carolina	216	North Carolina	Scotland	15,527	59.75
North Carolina	92	North Carolina	Mecklenburg	68,685	46.75
North Carolina	111	North Carolina	Wilson	49,384	50
North Carolina	597	North Carolina	Sampson	9,000	N/A
North Carolina	705	North Carolina	Rowan	22,940	N/A
North Carolina	86	North Carolina	Wake	75,886	83.4
North Carolina	537	North Carolina	Stanly	20,000	N/A
North Carolina	492	North Carolina	Henderson	16,000	new site
North Carolina	93	North Carolina	Mecklenburg	182,501	64
North Carolina	405	North Carolina	Jackson	13,296	45.8
North Carolina	335	North Carolina	Wake	7,776	67.8
North Carolina	451	North Carolina	New Hanover	67,743	61.2
North Carolina	538	North Carolina	Pasquotank	19,000	N/A
North Carolina	167	North Carolina	Pitt	89,616	58.2
North Carolina	144	North Carolina	Cumberland	151,589	53
North Carolina	94	North Carolina	Mecklenburg	120,000	66
North Carolina	1179	North Carolina	Watauga	26,000	new site
North Carolina	1223	North Carolina	Rowan	22,940	new site
North Carolina	369	North Carolina	Orange, Durham	108,105	67.6
North Carolina	569	North Carolina	Lenoir, Greene, Craven	22,180	N/A
North Carolina	704	North Carolina	Rowan	31,536	N/A
North Carolina	166	North Carolina	Guilford	135,821	58.25
North Carolina	84	North Carolina	Wake	84,189	82.8

North Carolina	538	North Carolina	Pasquotank	18,000	new site
North Carolina	571	North Carolina	Wayne	4,520	N/A
North Carolina	1148	North Carolina	Surry	10,000	new site
North Carolina	421	North Carolina	Pender, Duplin	10,000	new site
North Carolina	1220	North Carolina	Rowan	31,536	new site
Ohio	186	Ohio	Lawrence	10,445	46.33
Ohio	241	Ohio	Union	24,677	31.2
Ohio	374	Ohio	Franklin	654,817	29.6
Ohio	326	Ohio	Scioto	20,366	84.4
Ohio	54	Ohio	Greene	46,160	51.2
Ohio	233	Ohio	Richland	52,000	17.6
Ohio	456	Ohio	Muskingum	47,500	29.6
Ohio	131	Ohio	Tuscarawas	13,572	63.6
Ohio	301	Ohio	Lucas	44,680	27
Ohio	442	Ohio	Montgomery	113,629	74.25
Ohio	214	Ohio	Fairfield	24,303	44.5
Ohio	141	Ohio	Belmont	13,169	25
Ohio	311	Ohio	Wood	21,000	34.6
Ohio	67	Ohio	Wood	32,000	40
Ohio	155	Ohio	Portage	10,000	N/A
Ohio	403	Ohio	Montgomery	65,000	69.2
Ohio	187	Ohio	Franklin	645,940	27.2
Ohio	276	Ohio	Cuyahoga	313,158	66.4
Ohio	157	Ohio	Sandusky	25,000	62.5
Ohio	127	Ohio	Montgomery	226,729	60
Ohio	124	Ohio	Coshocton	12,000	66.8
Ohio	121	Ohio	Ashtabula	12,000	59.33
Ohio	304	Ohio	Butler	22,000	71.6
Ohio	277	Ohio	Cuyahoga	524,154	57.4
Ohio	382	Ohio	Clark	88,710	N/A
Ohio	255	Ohio	Hamilton	566,136	61
Ohio	455	Ohio	Mahoning	65,469	55.6
Ohio	48	Ohio	Athens	24,536	10.4
Ohio	204	Ohio	Portage	29,000	50.4
Ohio	74	Ohio	Crawford	12,362	68.5
Ohio	73	Ohio	Williams	8,655	56.8
Ohio	868	Ohio	Wayne	6,500	65.6
Ohio	411	Ohio	Wyandot	6,700	43.75
Ohio	102	Ohio	Marion	36,000	57.75
Ohio	170	Ohio	Butler	65,000	79
Ohio	773	Ohio	Brown	4,773	new site
Ohio	309	Ohio	Licking	3,300	49.8
Ohio	147	Ohio	Hancock	42,000	62.8
Ohio	98	Ohio	Pickaway	13,965	41.2
Ohio	263	Ohio	Knox	18,000	N/A
Ohio	278	Ohio	Cuyahoga	103,379	57.4
Ohio	422	Ohio	Trumbull	68,874	48.4
Ohio	235	Ohio	Washington	15,284	53
Ohio	315	Ohio	Miami	20,581	62
Ohio	79	Ohio	Stark	85,000	58.8
Ohio	388	Ohio	Jefferson	17,864	54.25
Ohio	205	Ohio	Hardin	8,500	46.67
Ohio	108	Ohio	Erie	55,000	53

Ohio	222	Ohio	Medina	35,000	48
Ohio	282	Ohio	Licking	45,000	17.6
Ohio	398	Ohio	Lucas	372,208	22
Ohio	291	Ohio	Huron	17,000	89.75
Ohio	273	Ohio	Hamilton	125,247	72
Ohio	36	Ohio	Summit	377,378	37.75
Ohio	219	Ohio	Allen	61,000	15.2
Ohio	43	Ohio	Fulton	6,000	50
Ohio	221	Ohio	Hamilton	200,666	62.4
Ohio	322	Ohio	Ottawa	7,000	56.6
Ohio	428	Ohio	Fayette	14,000	55.25
Ohio	129	Ohio	Defiance	23,027	N/A
Ohio	101	Ohio	Preble	8,400	32.33
Ohio	975	Ohio	Greene	4,100	50
Ohio	228	Ohio	Lucas	195,577	20.4
Ohio	46	Ohio	Ashtabula	31,430	48.6
Ohio	274	Ohio	Henry	12,246	45.6
Ohio	859	Ohio	Mercer	4,800	43.8
Ohio	112	Ohio	Wayne	27,000	55
Ohio	225	Ohio	Lorain	72,000	43.5
Ohio	140	Ohio	Lorain	54,500	67.6
Ohio	395	Ohio	Hamilton	83,058	65.4
Ohio	134	Ohio	Montgomery	78,509	63.25
Ohio	168	Ohio	Darke	13,000	63.33
Oklahoma	767	Oklahoma	Garfield	50,249	N/A
Oklahoma	769	Oklahoma	Comanche	93,000	N/A
Oklahoma	831	Oklahoma	Beckham	11,500	new site
Oklahoma	809	Oklahoma	Murray	5,000	new site
Oklahoma	831	Oklahoma	Beckham	11,500	new site
Oregon	942	Oregon	Washington	220,000	59.8
Oregon	947	Oregon	Lane	10,200	89.5
Oregon	1164	Oregon	Washington, Clackamas	25,780	new site
Oregon	965	Oregon	Marion	10,520	87.25
Oregon	930	Oregon	Clatsop	11,326	N/A
Oregon	945	Oregon	Multnomah	662,235	N/A
Oregon	959	Oregon	Umatilla	17,500	62
Oregon	936	Oregon	Lane	8,925	87.4
Oregon	1200	Oregon	Washington, Multnomah	654,741	new site
Oregon	1200	Oregon	Washington, Multnomah	654,741	new site
Oregon	943	Oregon	Washington	40,000	70.4
Oregon	469	Oregon	Jackson	21,105	N/A
Oregon	929	Oregon	Linn	57,785	N/A
Oregon	938	Oregon	Yamhill	24,120	81
Oregon	971	Oregon	Lane	235,155	82.8
Oregon	935	Oregon	Polk	16,555	85
Oregon	775	Oregon	Clackamas	103,800	N/A
Oregon	797	Oregon	Clackamas	76,600	N/A
Oregon	961	Oregon	Marion	229,000	79
Oregon	937	Oregon	Lincoln	8,865	81.6
Oregon	950	Oregon	Josephine	37,725	N/A
Oregon	934	Oregon	Benton	58,856	92.71
Oregon	940	Oregon	Deschutes	32,255	82.2
Oregon	958	Oregon	Malheur	10,966	59

Oregon	952	Oregon	Hood River	7,800	86.8
Oregon	953	Oregon	Klamath	20,840	65.2
Oregon	932	Oregon	Deschutes	92,850	N/A
Oregon	956	Oregon	Jackson	133,708	N/A
Oregon	966	Oregon	Columbia	13,739	N/A
Oregon	939	Oregon	Lincoln	10,400	69.4
Oregon	949	Oregon	Washington	40,000	68.2
Oregon	955	Oregon	Yamhill	34,615	83.25
Oregon	933	Oregon	Clackamas	14,206	81
Oregon	774	Oregon	Clackamas	4,000	N/A
Oregon	963	Oregon	Yamhill	6,100	34.67
Oregon	957	Oregon	Coos	9,975	85
Oregon	970	Oregon	Jefferson	3,200	66.5
Oregon	931	Oregon	Baker	9,860	N/A
Oregon	1201	Oregon	Clackamas, Multnomah, Washington	45,600	new site
Oregon	941	Oregon	Marion	26,273	N/A
Oregon	944	Oregon	Washington	9,900	67
Oregon	951	Oregon	Umatilla	18,775	64.4
Oregon	967	Oregon	Marion	10,840	62.67
Oregon	1164	Oregon	Washington, Clackamas	25,780	new site
Pennsylvania	1083	Pennsylvania	Montgomery	10,000	43
Pennsylvania	1081	Pennsylvania	Montgomery	13,000	23.2
Pennsylvania	726	Pennsylvania	Montgomery	13,000	N/A
Pennsylvania	125	Pennsylvania	Butler, Allegheny	41,000	new site
Pennsylvania	707	Pennsylvania	Montgomery	15,500	N/A
Pennsylvania	1161	Pennsylvania	Lehigh	6,598	new site
Rhode Island	412	Rhode Island	Providence	20,000	N/A
Rhode Island	565	Rhode Island	Kent	6,000	N/A
Rhode Island	1134	Rhode Island	Kent	60,224	26.6
Rhode Island	677	Rhode Island	Bristol	21,100	33.4
Rhode Island	464	Rhode Island	Providence	240,000	new site
Rhode Island	474	Rhode Island	Kent, Providence	80,000	N/A
Rhode Island	548	Rhode Island	Providence	120,000	35.6
Rhode Island	146	Rhode Island	Providence	226,000	N/A
Rhode Island	1224	Rhode Island	Kent	33,000	new site
Rhode Island	835	Rhode Island	Bristol	11,000	new site
Rhode Island	464	Rhode Island	Providence	240,000	new site
Rhode Island	835	Rhode Island	Bristol	11,000	new site
Rhode Island	76	Rhode Island	Providence	10,000	new site
South Carolina	885	South Carolina	Georgetown	30,000	N/A
South Carolina	883	South Carolina	York	88,000	N/A
South Carolina	877	South Carolina	Kershaw	8,825	N/A
South Carolina	1159	South Carolina	Darlington, Florence	45,000	new site
South Carolina	600	South Carolina	Greenwood	48,000	new site
South Carolina	908	South Carolina	Richland	60,000	N/A
South Carolina	491	South Carolina	Darlington	8,100	N/A
South Carolina	884	South Carolina	Greenville	400,000	N/A
South Carolina	878	South Carolina	Charleston	64,170	N/A
South Carolina	906	South Carolina	Lexington	40,000	N/A

South Carolina	906	South Carolina	Lexington	40,000	N/A
South Carolina	909	South Carolina	Horry	195,000	N/A
South Carolina	599	South Carolina	Greenwood	12,000	68.4
South Carolina	600	South Carolina	Greenwood	48,000	new site
South Dakota	1165	South Dakota	Yankton	15,500	new site
South Dakota	493	South Dakota	Beadle	13,289	new site
South Dakota	1165	South Dakota	Yankton	15,500	new site
South Dakota	672	South Dakota	Pennington	80,000	new site
South Dakota	493	South Dakota	Beadle	13,289	new site
Tennessee	496	Tennessee	Bradley	52,000	new site
Texas	183	Houston	Harris	16,804	new site
Texas	350	Houston	Harris	20,608	new site
Texas	593	Texas	Galveston	89,600	new site
Texas	35	Houston	Harris	551,150	new site
Texas	287	Houston	Harris	12,892	new site
Texas	709	Texas	El Paso	169,744	new site
Texas	665	Texas	Dallas	179,800	N/A
Texas	288	Houston	Harris	33,102	new site
Texas	865	Texas	Webb	120,000	new site
Texas	165	Houston	Harris, Fort Bend	28,742	new site
Texas	373	Houston	Harris	32,485	new site
Texas	667	Texas	Galveston	26,400	new site
Texas	135	Houston	Harris	16,030	new site
Texas	449	Houston	Harris	8,610	new site
Texas	56	Houston	Harris	70,900	new site
Texas	439	Houston	Harris	85,129	new site
Texas	1131	Texas	Kaufman	138,700	new site
Texas	367	Houston	Harris	109,414	new site
Texas	406	Houston	Harris	59,188	new site
Texas	667	Texas	Galveston	40,000	N/A
Texas	435	Houston	Harris	33,645	new site
Texas	566	Texas	El Paso	142,648	N/A
Texas	201	Houston	Harris	124,000	new site
Texas	443	Houston	Harris	3,623	new site
Texas	847	Texas	Bexar	133,454	new site
Texas	673	Texas	El Paso	435,464	N/A
Texas	1231	Texas	Dallas	500,000	new site
Texas	250	Houston	Harris	20,161	new site
Texas	375	Houston	Harris	293,227	new site
Texas	593	Texas	Galveston	80,000	N/A
Texas	149	Houston	Harris	4,170	new site
Texas	160	Houston	Harris	40,689	new site
Texas	848	Texas	Bexar	691,672	new site
Texas	272	Houston	Harris	4,010	new site
Texas	1141	Texas	Travis	510,000	new site
Texas	97	Houston	Harris	37,359	new site
Texas	307	Houston	Harris	5,497	new site
Texas	434	Houston	Harris, Fort Bend	20,920	new site
Texas	811	Texas	Bexar	533,956	new site
Texas	40	Houston	Harris	117,968	new site
Texas	681	Texas	El Paso	142,388	N/A
Texas	290	Houston	Harris	95,600	new site
Texas	867	Texas	Webb	140,000	new site

Texas	176	Houston	Harris	9,375	new site
Texas	1131	Texas	Kaufman	138,700	new site
Texas	780	Texas	Hardin	29,500	N/A
Texas	805	Texas	Dallas	900,000	new site
Texas	207	Houston	Harris, Montgomery	52,055	new site
Texas	446	Houston	Harris	20,758	new site
Texas	289	Houston	Harris	19,867	new site
Texas	366	Houston	Harris	109,414	new site
Texas	113	Houston	Harris	3,825	new site
Texas	409	Houston	Harris	97,918	new site
Texas	481	Texas	Dallas	200,000	N/A
Texas	863	Texas	Webb	30,000	new site
Texas	1140	Texas	Travis	500,000	new site
Utah	15	Utah	San Juan, Grand	9,896	63.6
Utah	16	Utah	Davis, Weber	228,700	63.5
Utah	9	Utah	Weber, Davis	208,850	58.2
Utah	33	Utah	Utah	253,112	64
Utah	12	Utah	Cache	94,005	61.4
Utah	20	Utah	Utah	21,231	65
Utah	21	Utah	Duchesne	6,790	53.75
Utah	31	Utah	Utah	35,840	62.8
Utah	11	Utah	Salt Lake, Utah	94,484	65
Utah	3	Utah	Box Elder	21,443	54.8
Utah	24	Utah	Davis	84,981	59.8
Utah	5	Utah	Iron	32,451	60.6
Utah	17	Utah	Utah	112,901	64
Utah	32	Utah	Tooele	36,244	54.8
Utah	28	Utah	Salt Lake	209,645	68.8
Utah	25	Utah	Davis	21,872	59.6
Utah	29	Utah	Utah	12,510	53.2
Utah	11	Utah	Salt Lake	89,507	68.4
Utah	1	Utah	Washington	24,970	58.25
Utah	30	Utah	Salt Lake	254,971	68
Utah	23	Utah	Summit	8,530	54.6
Utah	26	Utah	Utah	53,313	63
Utah	19	Utah	Carbon	17,312	66.2
Utah	10	Utah	Cache	9,095	63.2
Utah	1077	Utah	Wasatch	19,936	63.2
Utah	18	Utah	Utah	102,624	63.6
Utah	27	Utah	Washington	92,047	62.2
Utah	7	Utah	Salt Lake	515,494	69.2
Utah	34	Utah	Box Elder	12,451	52
Utah	6	Utah	Davis	64,533	60.8
Utah	22	Utah	Summit	23,304	59
Utah	2	Utah	Uintah	29,513	51.6
Vermont	1080	Vermont	Chittenden	31,000	20
Vermont	1157	Vermont	Bennington	15,000	new site
Vermont	796	Vermont	Windsor	9,000	N/A
Vermont	1080	Vermont	Chittenden	31,000	new site
Vermont	701	Vermont	Chittenden	8,500	new site
Vermont	770	Vermont	Franklin	7,500	new site
Virginia	589	Virginia	Newport News City, Gloucester, Hampton City, York, Poquoson City, Mathews	99,112	N/A

Virginia	586	Virginia	Suffolk City, Portsmouth City, Isle Of Wight, Chesapeake City	197,608	N/A
Virginia	342	Virginia	Goochland, Henrico, Richmond City	225,000	new site
Virginia	177	Virginia	Virginia Beach City, Chesapeake City	343,016	61.67
Virginia	588	Virginia	New Kent, York, Williamsburg City, Newport News City, James City	69,059	N/A
Virginia	467	Virginia	Hanover	10,000	N/A
Virginia	714	Virginia	Orange	4,721	N/A
Virginia	1197	Virginia	York	118,497	new site
Virginia	583	Virginia	Chesapeake City, Norfolk City, Virginia Beach City	530,848	N/A
Virginia	892	Virginia	Colonial Heights City, Prince George, Petersburg City, Hopewell City, Dinwiddie, Chesterfield	71,416	new site
Virginia	178	Virginia	Portsmouth City, Chesapeake City, Suffolk City, Isle Of Wight	197,608	60.33
Virginia	585	Virginia	Newport News City, Hampton City, York, James City	141,543	N/A
Virginia	229	Virginia	Campbell, Amherst, Bedford City	220,000	53.67
Virginia	262	Virginia	Albemarle	118,266	56.67
Virginia	180	Virginia	Chesapeake City, Portsmouth City, Norfolk City, Virginia Beach City	192,347	38.33
Virginia	42	Virginia	Prince William, Stafford	92,000	N/A
Virginia	181	Virginia	James City, York, Newport News City, New Kent, Williamsburg City	69,059	60.33
Virginia	469	Virginia	Hanover	12,000	N/A
Virginia	587	Virginia	Chesapeake City, Norfolk City, Portsmouth City, Virginia Beach City	192,347	N/A
Virginia	1113	Virginia	Arlington	207,627	new site
Virginia	308	Virginia	Frederick	16,563	16
Virginia	310	Virginia	Pulaski, Radford, Montgomery	70,000	60.67
Virginia	582	Virginia	Hampton City, Norfolk City	78,322	N/A
Virginia	1211	Virginia	Gloucester, York, Mathews	99,112	new site
Virginia	286	Virginia	Harrisonburg City, Rockingham	81,000	54.33
Virginia	342	Virginia	Richmond City, Henrico, Goochland	225,000	N/A
Virginia	540	Virginia	Henry, Martinsville City	16,500	N/A
Virginia	220	Virginia	Stafford	44,000	N/A
Virginia	1238	Virginia	Montgomery	23,000	new site
Virginia	169	Virginia	Prince William, Stafford, Fairfax	165,901	75.33
Virginia	118	Virginia	Wise	14,000	66.67
Virginia	38	Virginia	Alexandria City, Fairfax	300,000	74
Virginia	454	Virginia	Washington	7,300	53.33
Virginia	1198	Virginia	Wise	9,340	new site
Virginia	1113	Virginia	Arlington	207,627	new site
Virginia	584	Virginia	Hampton City, Newport News City	118,497	N/A
Virginia	100	Virginia	Pittsylvania	47,000	48.33
Virginia	346	Virginia	Roanoke, Botetourt, Salem, Roanoke City	300,000	64.33
Virginia	1234	Virginia	Stafford, Fairfax, Prince William	165,901	new site
Virginia	410	Virginia	Manassas City, Fairfax, Manassas Park City, Loudoun, Fairfax City, Fauquier, Prince William	350,000	77.33
Virginia	1160	Virginia	Hanover	20,000	new site
Virginia	61	Virginia	Montgomery	52,500	40.67
Virginia	1240	Virginia	Washington	7,300	new site

Virginia	51	Virginia	Loudoun	10,178	72.67
Virginia	1218	Virginia	Petersburg City	30,000	new site
Virginia	892	Virginia	Dinwiddie, Prince George, Petersburg City, Chesterfield, Colonial Heights City	65,000	new site
Virginia	1202	Virginia	Frederick	51,470	new site
Virginia	400	Virginia	Montgomery	23,000	75.67
Virginia	220	Virginia	Stafford	44,000	new site
Virginia	1195	Virginia	Norfolk City	78,322	new site
Virginia	1235	Virginia	Newport News City, New Kent, Williamsburg City, James City, York	69,059	new site
Virginia	42	Virginia	Stafford, Prince William	92,000	new site
Washington	664	Washington	Snohomish	10,500	N/A
Washington	760	Washington	Spokane	120,000	85.71
Washington	676	Washington	King, Snohomish	288,000	N/A
Washington	1142	Washington	Snohomish, King	789,000	new site
Washington	1143	Washington	Pierce	43,000	new site
Washington	759	Washington	Spokane	225,000	75.71
Washington	504	Washington	Clark	120,000	N/A
Washington	708	Washington	Snohomish	3,700	N/A
Washington	754	Washington	Benton	59,609	91.14
Washington	768	Washington	Snohomish	173,800	55.4
Washington	804	Washington	Clark	16,950	new site
Washington	758	Washington	Benton	83,000	92.5
Washington	510	Washington	Clark	81,140	new site
Washington	510	Washington	Clark	81,140	33.33
Washington	725	Washington	Clark	25,457	N/A
Washington	510	Washington	Clark	120,000	N/A
Washington	99	Washington	Clark	25,457	new site
Washington	502	Washington	Clark	6,875	N/A
Washington	753	Washington	Franklin	73,000	89
Washington	676	Washington	King, Snohomish	288,000	new site
Washington	679	Washington	Snohomish	7,125	new site
Washington	351	Washington	Clark	120,000	new site
Washington	661	Washington	Snohomish	37,650	new site
Washington	499	Washington	Clark	162,100	66.67
Washington	499	Washington	Clark	162,100	new site
Washington	1076	Washington	Chelan	35,550	new site
Washington	1139	Washington	King, Pierce	896,000	new site
Washington	755	Washington	Benton	15,000	74.2
Washington	555	Washington	Snohomish	20,000	new site
Washington	1084	Washington	Clark	120,000	64.6
West Virginia	712	West Virginia	Raleigh	25,000	N/A
West Virginia	680	West Virginia	Harrison	80,000	N/A
West Virginia	206	West Virginia	Mineral	8,168	N/A
West Virginia	387	West Virginia	Monongalia	48,328	N/A
West Virginia	460	West Virginia	Jefferson	17,000	N/A
West Virginia	912	West Virginia	Brooke	6,468	N/A
West Virginia	735	West Virginia	Taylor	6,071	N/A
West Virginia	592	West Virginia	Harrison	80,000	new site
West Virginia	459	West Virginia	Kanawha	50,000	N/A
West Virginia	789	West Virginia	Raleigh	88,900	N/A
West Virginia	687	West Virginia	Harrison	26,498	N/A
West Virginia	445	West Virginia	Ohio	50,000	N/A

West Virginia	463	West Virginia	Marshall	12,000	N/A
West Virginia	465	West Virginia	Wood	48,050	N/A
West Virginia	466	West Virginia	Mercer	36,000	N/A
Wisconsin	257	Wisconsin	Waukesha, Ozaukee, Washington, Racine, Milwaukee	615,934	69.2
Wisconsin	231	Wisconsin	Dane	345,000	63.62
Wisconsin	128	Wisconsin	Brown	43,000	48
Wisconsin	243	Wisconsin	Juneau	4,400	29.67
Wisconsin	447	Wisconsin	Walworth, Jefferson	14,500	N/A
Wisconsin	389	Wisconsin	Portage	27,000	56.75
Wisconsin	473	Wisconsin	Wood, Marathon	19,684	N/A
Wisconsin	136	Wisconsin	Eau Claire, Chippewa	73,000	64.2
Wisconsin	339	Wisconsin	Oneida	7,800	N/A
Wisconsin	433	Wisconsin	Marathon	42,350	41.75
Wisconsin	209	Wisconsin	La Crosse	85,000	60.33
Wisconsin	246	Wisconsin	Dunn	5,000	50.67
Wisconsin	344	Wisconsin	Pierce, Saint Croix	15,900	60.67
Wisconsin	203	Wisconsin	Kenosha	122,000	60.4
Wisconsin	164	Wisconsin	Brown, Kewaunee	189,000	43.4
Wisconsin	223	Wisconsin	Columbia	3,100	53.33
Wisconsin	239	Wisconsin	Wood, Marathon	19,300	63.4
Wisconsin	391	Wisconsin	Dane	33,000	66.2
Wisconsin	340	Wisconsin	Taylor	7,600	N/A
Wisconsin	172	Wisconsin	Dodge, Washington	17,320	40.5
Wisconsin	453	Wisconsin	Wood	21,000	N/A
Wisconsin	297	Wisconsin	Jefferson, Waukesha	22,300	45.8
Wisconsin	153	Wisconsin	Waukesha	51,000	67.8
Wisconsin	57	Wisconsin	Green Lake, Waushara	5,500	N/A
Wisconsin	431	Wisconsin	Waukesha	72,000	N/A
Wisconsin	420	Wisconsin	Vernon	4,400	71.25
Wisconsin	41	Wisconsin	Outagamie, Calumet, Winnebago	72,810	63.2
Wisconsin	115	Wisconsin	Waupaca	14,000	44.6
Wisconsin	313	Wisconsin	Marinette	3,500	50.67
Wisconsin	696	Wisconsin	Dodge, Jefferson	23,660	66.6
Wisconsin	318	Wisconsin	Grant	11,000	77.75
Wisconsin	256	Wisconsin	Milwaukee, Ozaukee	470,007	43
Wisconsin	392	Wisconsin	Douglas	28,000	33.8
Wisconsin	44	Wisconsin	Ashland	8,200	60
Wisconsin	248	Wisconsin	Lincoln	9,700	34.67
Wisconsin	260	Wisconsin	Green	11,000	49.2
Wisconsin	232	Wisconsin	Manitowoc	34,500	50.25
Wisconsin	325	Wisconsin	Columbia	11,000	57.25
Wisconsin	212	Wisconsin	Walworth	8,430	N/A
Wisconsin	60	Wisconsin	Jackson	5,000	64
Wisconsin	182	Wisconsin	Saint Croix	14,000	50.2
Wisconsin	364	Wisconsin	Sheboygan	75,000	61.8
Wisconsin	320	Wisconsin	Sheboygan	9,150	54
Wisconsin	236	Wisconsin	Marinette	11,000	45.8
Wisconsin	331	Wisconsin	Racine	139,000	45.6
Wisconsin	302	Wisconsin	Winnebago	78,300	45.6
Wisconsin	120	Wisconsin	Columbia	6,900	48

Terms to Know

Virus levels: SARS-CoV-2 viral RNA concentrations in wastewater. RNA is the virus's genetic material.

Normalization: A statistical method to account for differences in variables such as wastewater flow rate and number of people served by a sewer system. In other words, normalization reduces excess variation (or "noise") and helps account for things like changing population sizes or weather events that can impact wastewater. Normalized data can be compared over time and between different sites. Metrics presented on this page are based on SARS-CoV-2 viral RNA concentrations in wastewater that have been normalized. See the NWSS Data Analytics page for more information.

Sewershed: The geographic area contributing wastewater to a sampling location. Sewersheds may cross county or state boundaries. Sewersheds are referred to as "sites" on the map.

About the Data

†Data will be updated daily as soon as they are reviewed and verified, often before 8 pm ET. However, daily updates might be delayed due to delays in reporting data.

Percent of sites in each percent change category over time

- At any point in time, this chart shows what percent of sites reported decreased levels of virus in the previous 15 days, what percent reported increased levels, and what percent stayed the same.
- Viewed over time, the chart shows how this distribution changed.
- For each date, the number of sites in each percent change category is counted and divided by the total number of sampling sites with current data. This information is provided on a stacked area chart to show the change in the percent of sites in each percent change category since January 1, 2021.
- To simplify the chart, the "-9% to 0%" and "1% to 9%" categories were combined into "-9% to 9%," and the "100% to 999%" and "1000% or more" categories were combined into "100% or more." Because the number of sampling sites has changed since January 1, 2021, the total number of sites with current data is shown as a black line on the chart.
- Not all sites have data since January 1, 2021, and not all sites have data for all dates shown on the chart.
- The percent of sites in each percent change category for each date may not add up to 100% due to rounding.

Current virus levels in wastewater by site

- This metric shows whether SARS-CoV-2 levels at a site are currently higher or lower than past levels at the same site. It is calculated by first ordering the SARS-CoV-2 levels in wastewater for all samples collected since December 1, 2021 from the lowest to highest level. The ordered levels are then grouped into five categories (0-19%, 20-39%, 40-59%, 60-79%, and 80-100%) based on how low or high their levels are compared to previous levels. The levels in the 0-19% group represent the lowest levels seen at that sampling site and those in the 80-100% group represent the highest.
- Using December 1, 2021 as a starting date for all sites makes data more comparable between sites. Sites that began reporting wastewater data after December 1, 2021 are not comparable to sites that have been reporting data since December 1, 2021 or earlier because the data history for these new sites is not long enough to reflect the same surges as the other sites.
- The "New site" category means a site just started collecting wastewater samples and has reported fewer than 10 samples, which is not enough samples to meaningfully compare levels at the site over time.

Percent change in the last 15 days

- This metric shows how much normalized SARS-CoV-2 viral levels in wastewater at each site increased or decreased during the current 15-day time period. This metric does not show overall levels of SARS-CoV-2 in wastewater. Percent change compares past data to current data to show changing trends. A large percent increase does not necessarily mean SARS-CoV-2 viral levels in wastewater are high. For instance, a change from 1 unit to 2 units would be a percent change of 100%. A change from 500,000 units to 1 million units is also a percent change of 100%.
- Percent change is calculated as the modeled change over 15 days, based on linear regression of log-transformed SARS-CoV-2 levels. A site must report at least 2 samples over the 15-day period to calculate percent change. Sites with "No recent data" (colored gray on the map) reported fewer than 2 samples for the current 15-day period.

Percent of wastewater samples with detectable virus in the last 15 days

- This metric shows the percent of wastewater samples at each site that were positive for SARS-CoV-2 RNA over the last 15 days. It does not show overall levels of SARS-CoV-2 in wastewater.
- This metric is calculated by dividing the number of samples in which SARS-CoV-2 was detected at a site by the total number of samples collected for the site during the 15-day period and multiplying by 100.
- Sites with at least one sample and no SARS-CoV-2 viral detections over the past 15 days are listed as “Non-detects” and are shown on the map as hollow circles with a black outline.
- Sites with no samples for the current 15-day period are listed as “No recent data” and colored gray on the map.

SARS-CoV-2 concentrations in wastewater over time

- When a site is selected, a smoothed, spline fit SARS-CoV-2 concentration line is shown for the last 4 months, as data are available. The smoothed SARS-CoV-2 concentration line shows how SARS-CoV-2 concentrations in wastewater at a sampling site have changed over the last 4 months.
- At least 4 samples are required to produce the smoothed SARS-CoV-2 concentration line. If a major change in laboratory methods is reported, only data since the new laboratory method was reported are shown. Sites labeled as ‘New sites’ in the current virus levels in wastewater metric should be viewed with caution since they have only a few samples to generate their trends lines.

Category change in the last 7 days

- This metric shows the change in the number of sites (represented as a percent) that are in a specific metric category (for example, the 15-day percent change category of 1000% or more) compared to the previous 7 days. In other words, it shows how many sites have been added or removed from the metric category in the past week. It is calculated by subtracting the current number of sites in each metric category from the number of sites in the same category 7 days earlier and dividing by the number of sites in the same category 7 days earlier.
- *If a metric category had no sites in it 7 days earlier, the category change in the last 7 days is listed as “N/A*” since you cannot divide by 0.

County-level data

- Data are presented by sewershed (the geographic area contributing wastewater to a sampling location). Sampling locations may be at wastewater treatment plants or upstream in the sewage network. Sewersheds may cross county or state boundaries. This means multiple sewersheds may serve a single county, and a single sewershed may serve multiple counties. Sewersheds are referred to as “sites” on the map.

Sewershed locations

- Data are plotted in the ZIP code of the sampling location, so points on the map do not correspond exactly to sampling locations.
- All counties represented by a sampling location are highlighted when the sampling location point is selected.
- The District of Columbia (DC) and New York City (NYC) are shown separately on the map to denote sampling locations within DC and NYC. In the "State or Territory" dropdown menu, select "District of Columbia" or “New York City” to zoom to points reported within that jurisdiction. Please note some DC sampling locations may receive wastewater from parts of counties in Virginia or Maryland and some NYC sampling locations may receive wastewater from parts of counties in surrounding states.

Data subject to change

- Wastewater disease surveillance data presented are the best available data and are subject to change. These data may be incomplete for the most recent 15-day period due to processing and reporting delays. All data are provisional.

May 2022 Coverage Limitations

- Beginning April 15, 2022, approximately 150 wastewater sites in 29 states began transitioning to a new wastewater testing provider. During this transition, these sites will not have recent data displayed and will be colored gray on the map. It will take several weeks for enough data to be collected to calculate the metrics displayed on this page. Results for these sites are expected to be available again between mid-May and June 2022.

Data not shown

- Data from sewersheds that serve fewer than 3,000 people.
- Data from sewersheds where population estimates are missing.
- Data from facility or institution-specific sampling locations.
- Wastewater treatment plant names and the names of upstream sampling sites are made anonymous using a consistent, arbitrary number.
- Approximately 20% of US households are on septic systems; the exact percent varies by location. These systems do not connect to wastewater treatment plants where sampling often occurs. Therefore, households on septic systems are not represented in the data.
- Data from sewersheds currently being monitored but not submitted by health departments to CDC. Certain communities collect wastewater samples but do not submit their data to CDC.
- Data from sewersheds may not be presented if there are data quality issues.

Data source

- Data displayed are derived from two sources:
- Data are submitted to CDC by state, tribal, local, and territorial (STLT) health departments participating in the National Wastewater Surveillance System. Participation is voluntary, so not all jurisdictions are reporting to CDC.
- Data are reported through a CDC-managed contract for commercial testing, which is intended to supplement the geographic coverage of the STLT wastewater surveillance programs.

Laboratory methods

- SARS-CoV-2 concentrations in wastewater are measured using reverse transcription quantitative polymerase chain reaction (RT-qPCR) or reverse transcription digital polymerase chain reaction (RT-dPCR). Laboratory processing and quantification methods may vary between sampling sites or, less commonly, within a sampling site over time. Since SARS-CoV-2 concentration estimates may differ across these lab methods, concentration values should not be compared across sampling locations. Instead, percent change in SARS-CoV-2 concentrations and current levels compared to past levels at the same site are provided. These metrics are more comparable across lab methods. When testing a sample, SARS-CoV-2 is considered detected when any PCR replicates for the sample were positive. Positive is defined for RT-qPCR as a Ct value less than 40 and for RT-ddPCR as 3 or more positive droplets/partitions. Learn more on the Wastewater Surveillance Testing Methods page.

Data download

- These data can be downloaded from data.cdc.gov: NWSS Public SARS-CoV-2 Wastewater Metric Data and NWSS Public SARS-CoV-2 Concentration in Wastewater Data
- The data dictionary for these data (Public Analytics Data Dictionary) is also available.
- To request detailed wastewater data, including a full-time history of raw concentrations, email nwss@cdc.gov with the subject line 'NWSS public data request.' You will be required to sign a data use agreement.

Wondering what all the data mean?

CDC's COVID-Data Tracker Weekly Review helps you stay up to date on interpretation of key data and trends.

How does wastewater surveillance work?

Wastewater data can show changes in disease trends 4 to 6 days before those changes in trends are seen in clinical cases, and a single wastewater sample captures the infection status of thousands to millions of individuals. Learn more: National Wastewater Surveillance System (NWSS).

If it looks like virus levels in wastewater are rising in my community, what should I do?

Check your county's COVID-19 Community Level and follow the recommended prevention steps.
Public health officials watch for sustained increasing levels of the virus in wastewater and use these data to inform public health decisions. State and local health officials track a variety of data and put this information together to understand the local COVID-19 situation and decide how to best respond.

How do I build NWSS in my community?

Wastewater-based disease surveillance is an exciting new tool to help communities monitor their health. Find information on what to consider when implementing a wastewater-based disease surveillance system.

Is there wastewater sampling in my community?

New sampling sites are being added over time as health departments begin sampling and reporting wastewater surveillance data. Some communities not represented on this dashboard may be conducting wastewater surveillance. If you would like to know if wastewater surveillance is happening in your community, contact your health department or local government. At this time, CDC does not release the names of the wastewater treatment plants or zip codes where sampling sites are located. However, information on the counties served by the wastewater sampling sites is provided.

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